

1600 #5/8/02
04-09-02

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/903,823

DATE: 01/03/2002

TIME: 11:29:07

Input Set : N:\Crf3\RULE60\09903823.raw

Output Set: N:\CRF3\01032002\I903823.raw

1 <110> APPLICANT: Genentech, Inc.
2 Ashkenazi, Avi
3 Botstein, David
4 Desnoyers, Luc
5 Eaton, Dan L.
6 Ferrara, Napoleone
7 Filvaroff, Ellen
8 Fong, Sherman
9 Gao, Wei-Qiang
10 Gerber, Hanspeter
11 Gerritsen, Mary E.
12 Goddard, A.
13 Godowski, Paul J.
14 Grimaldi, Christopher J.
15 Gurney, Austin L.
16 Hillan, Kenneth, J.
17 Kljavin, Ivar J.
18 Mather, Jennie P.
19 Pan, James
20 Paoni, Nicholas F.
21 Roy, Margaret Ann
22 Stewart, Timothy A.
23 Tumas, Daniel
24 Williams, P. Mickey
25 Wood, William, I.

RECEIVED

APR 01 2002

TECH CENTER 1600/2900

ENTERED

26 <120> TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
27 Acids Encoding the Same
28 <130> FILE REFERENCE: 10466-14
29 <140> CURRENT APPLICATION NUMBER: 09/903,823
30 <141> CURRENT FILING DATE: 2001-07-11
31 <150> PRIOR APPLICATION NUMBER: US/09/665,350
32 <151> PRIOR FILING DATE: 2000-09-18
33 <150> PRIOR APPLICATION NUMBER: US 60/143,048
34 <151> PRIOR FILING DATE: 1999-07-07
35 <150> PRIOR APPLICATION NUMBER: US 60/145,698
36 <151> PRIOR FILING DATE: 1999-07-26
37 <150> PRIOR APPLICATION NUMBER: US 60/146,222
38 <151> PRIOR FILING DATE: 1999-07-28
39 <150> PRIOR APPLICATION NUMBER: PCT/US99/20594
40 <151> PRIOR FILING DATE: 1999-09-08
41 <150> PRIOR APPLICATION NUMBER: PCT/US99/20944
42 <151> PRIOR FILING DATE: 1999-09-13
43 <150> PRIOR APPLICATION NUMBER: PCT/US99/21090
44 <151> PRIOR FILING DATE: 1999-09-15
45 <150> PRIOR APPLICATION NUMBER: PCT/US99/21547
46 <151> PRIOR FILING DATE: 1999-09-15
47 <150> PRIOR APPLICATION NUMBER: PCT/US99/23089

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/903,823

TIME: 11:29:07

Input Set : N:\Crif3\RULE60\09903823.raw

Output Set: N:\CRF3\01032002\I903823.raw

```

48 <151> PRIOR FILING DATE: 1999-10-05
49 <150> PRIOR APPLICATION NUMBER: PCT/US99/28214
50 <151> PRIOR FILING DATE: 1999-11-29
51 <150> PRIOR APPLICATION NUMBER: PCT/US99/28313
52 <151> PRIOR FILING DATE: 1999-11-30
53 <150> PRIOR APPLICATION NUMBER: PCT/US99/28564
54 <151> PRIOR FILING DATE: 1999-12-02
55 <150> PRIOR APPLICATION NUMBER: PCT/US99/28565
56 <151> PRIOR FILING DATE: 1999-12-02
57 <150> PRIOR APPLICATION NUMBER: PCT/US99/30095
58 <151> PRIOR FILING DATE: 1999-12-16
59 <150> PRIOR APPLICATION NUMBER: PCT/US99/30911
60 <151> PRIOR FILING DATE: 1999-12-20
61 <150> PRIOR APPLICATION NUMBER: PCT/US99/30999
62 <151> PRIOR FILING DATE: 1999-12-20
63 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219
64 <151> PRIOR FILING DATE: 2000-01-05
65 <160> NUMBER OF SEQ ID NOS: 423
67 <210> SEQ ID NO: 1
68 <211> LENGTH: 1825
69 <212> TYPE: DNA
70 <213> ORGANISM: Homo Sapien
71 <400> SEQUENCE: 1
72     actgcacctc ggttctatcg attgaattcc ccgggggatcc tctagagatc 50
73     cctcgacctc gacccacgcg tccggggccgg agcagcacgg ccgcaggacc 100
74     tggagctccg gctgcgtctt cccgcagcgc taccgcctat gcgcctgccg 150
75     cgccggggccg cgctggggct cctgccgctt ctgctgctgc tgcgcgccgc 200
76     gccggaggcc gccaaagaagc cgacgccctg ccaccgggtg cgggggctgg 250
77     tggacaagtt taaccagggg atggtggaca ccgcaaagaa gaactttggc 300
78     ggcggaaca cggttgga ggaagagacg ctgtccaagt acgagtcag 350
79     cgagattcgc ctgtggaga tcctggaggg gctgtgcgag agcagcgact 400
80     tcgaatgcaa tcagatgcta gaggcgagg aggagcacct ggaggcctgg 450
81     tggctgcagc tgaagagcga atatcctgac ttattcgagt ggttttgtgt 500
82     gaagacactg aaagtgtgct gctctccagg aacctacggt cccgactgtc 550
83     tcgcatgcca gggcggatcc cagaggccct gcagcgggaa tggccactgc 600
84     agcggagatg ggagcagaca gggcgacggg tcctgccggt gccacatggg 650
85     gtaccagggc ccgctgtgca ctgactgcat ggacggctac ttcagctcgc 700
86     tccggaacga gacccacagc atctgcacag cctgtgacga gtctgcaag 750
87     acgtgctcgg gcctgaccaa cagagactgc ggcgagtgtg aagtgggctg 800
88     ggtgctggac gaggggcgct gtgtggatgt ggacgagtgt gcggccgagc 850
89     cgctccctg cagcgtgcg cagttctgta agaacgcaa cggctcctac 900
90     acgtgcgaag agtgtgactc cagctgtgtg ggctgcacag ggggaaggccc 950
91     aggaaactgt aaagagtgt tctctggcta cgcgagggag cacggacagt 1000
92     gtgcagatgt ggacgagtgc tctactagcag aaaaaacctg tgtgaggaaa 1050
93     aacgaaaact gctacaatac tccagggagc tacgtctgtg tgtgtcctga 1100
94     cggttcgaa gaaacggaag atgcctgtgt gccgccggca gaggctgaag 1150
95     ccacagaagg agaaagcccg acacagctgc cctcccgcga agacctgtaa 1200
96     tgtgccggac ttacccttta aattattcag aaggatgtcc cgtggaaaat 1250
97     gtggccctga ggatgccgtc tcctgcagtg gacagcggcg gggagaggct 1300

```

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/903,823

TIME: 11:29:07

Input Set : N:\Crif3\RULE60\09903823.raw

Output Set: N:\CRF3\01032002\I903823.raw

```

98 gcctgctctc taacgggtga ttctcatttg tcccttaaac agctgcattt 1350
99 cttggttggt cttaaacaga cttgtatatt ttgatacagt tctttgtaat 1400
100 aaaattgacc attgtaggta atcaggagga aaaaaaaaaa aaaaaaaaaa 1450
101 aaaggcgggc cgcgactcta gagtcgaact gcagaagctt ggccgccatg 1500
102 gcccaacttg tttattgcag cttataatgg ttacaaataa agcaatagca 1550
103 tcacaaattt cacaaataaa gcattttttt cactgcattc tagttgtggt 1600
104 ttgtccaaac tcatcaatgt atcttatcat gtctggatcg ggaattaatt 1650
105 cggcgagca ccatggcctg aaataacctc tgaaagagga acttggttag 1700
106 gtaccttctg aggcggaaag aaccagctgt ggaatgtgtg tcagttaggg 1750
107 tgtggaaagt ccccgagctc cccagcaggc agaagtatgc aagcatgcat 1800
108 ctcaattagt cagcaacca gtttt 1825

```

110 <210> SEQ ID NO: 2

111 <211> LENGTH: 353

112 <212> TYPE: PRT

113 <213> ORGANISM: Homo Sapien

114 <400> SEQUENCE: 2

```

115 Met Arg Leu Pro Arg Arg Ala Ala Leu Gly Leu Leu Pro Leu Leu
116 1 5 10 15
117 Leu Leu Leu Pro Pro Ala Pro Glu Ala Ala Lys Lys Pro Thr Pro
118 20 25 30
119 Cys His Arg Cys Arg Gly Leu Val Asp Lys Phe Asn Gln Gly Met
120 35 40 45
121 Val Asp Thr Ala Lys Lys Asn Phe Gly Gly Gly Asn Thr Ala Trp
122 50 55 60
123 Glu Glu Lys Thr Leu Ser Lys Tyr Glu Ser Ser Glu Ile Arg Leu
124 65 70 75
125 Leu Glu Ile Leu Glu Gly Leu Cys Glu Ser Ser Asp Phe Glu Cys
126 80 85 90
127 Asn Gln Met Leu Glu Ala Gln Glu Glu His Leu Glu Ala Trp Trp
128 95 100 105
129 Leu Gln Leu Lys Ser Glu Tyr Pro Asp Leu Phe Glu Trp Phe Cys
130 110 115 120
131 Val Lys Thr Leu Lys Val Cys Cys Ser Pro Gly Thr Tyr Gly Pro
132 125 130 135
133 Asp Cys Leu Ala Cys Gln Gly Gly Ser Gln Arg Pro Cys Ser Gly
134 140 145 150
135 Asn Gly His Cys Ser Gly Asp Gly Ser Arg Gln Gly Asp Gly Ser
136 155 160 165
137 Cys Arg Cys His Met Gly Tyr Gln Gly Pro Leu Cys Thr Asp Cys
138 170 175 180
139 Met Asp Gly Tyr Phe Ser Ser Leu Arg Asn Glu Thr His Ser Ile
140 185 190 195
141 Cys Thr Ala Cys Asp Glu Ser Cys Lys Thr Cys Ser Gly Leu Thr
142 200 205 210
143 Asn Arg Asp Cys Gly Glu Cys Glu Val Gly Trp Val Leu Asp Glu
144 215 220 225
145 Gly Ala Cys Val Asp Val Asp Glu Cys Ala Ala Glu Pro Pro Pro
146 230 235 240
147 Cys Ser Ala Ala Gln Phe Cys Lys Asn Ala Asn Gly Ser Tyr Thr

```

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/903,823

TIME: 11:29:07

Input Set : N:\Crif3\RULE60\09903823.raw

Output Set: N:\CRF3\01032002\I903823.raw

148		245	250	255
149	Cys Glu Glu Cys	Asp Ser Ser Cys Val	Gly Cys Thr Gly Glu	Gly
150		260	265	270
151	Pro Gly Asn Cys	Lys Glu Cys Ile Ser	Gly Tyr Ala Arg Glu	His
152		275	280	285
153	Gly Gln Cys Ala	Asp Val Asp Glu Cys	Ser Leu Ala Glu Lys	Thr
154		290	295	300
155	Cys Val Arg Lys	Asn Glu Asn Cys Tyr	Asn Thr Pro Gly Ser	Tyr
156		305	310	315
157	Val Cys Val Cys	Pro Asp Gly Phe Glu	Glu Thr Glu Asp Ala	Cys
158		320	325	330
159	Val Pro Pro Ala	Glu Ala Glu Ala Thr	Glu Gly Glu Ser Pro	Thr
160		335	340	345
161	Gln Leu Pro Ser	Arg Glu Asp Leu		
162		350		

164 <210> SEQ ID NO: 3

165 <211> LENGTH: 2206

166 <212> TYPE: DNA

167 <213> ORGANISM: Homo Sapien

168 <400> SEQUENCE: 3

```

169   cagggtccaac tgcacctcgg ttctatcgat tgaattcccc ggggatcctc 50
170   tagagatccc tcgacctcga cccacgcgtc cgccaggccg ggaggcgacg 100
171   cgcccagccg tctaaacggg aacagccctg gctgagggag ctgcagcgca 150
172   gcagagtatc tgacggcgcc aggttgcgta ggtgcggcac gaggagtttt 200
173   cccggcagcg aggaggtcct gaggcagcatg gcccgaggga gcgccttccc 250
174   tgccgcccgcg ctctggctct ggagcatect cctgtgcctg ctggcactgc 300
175   gggcgagggc cgggcccgcg caggaggaga gcctgtacct atggatcgat 350
176   gctcaccagg caagagtact cataggattt gaagaagata tcctgattgt 400
177   ttcagagggg aaaatggcac cttttacaca tgatttcaga aaagcgcaac 450
178   agagaatgcc agctattcct gtcaatatcc attccatgaa ttttacctgg 500
179   caagctgcag ggcaggcaga atacttctat gaattcctgt ccttgccgtc 550
180   cctggataaa ggcacatcag cagatccaac cgtcaatgtc cctctgctgg 600
181   gaacagtgcc tcacaaggca tcagttgttc aagttggttt cccatgtctt 650
182   ggaaaacagg atggggtggc agcatttgaa gtggatgtga ttgttatgaa 700
183   ttctgaaggc aacaccattc tccaaacacc tcaaaatgct atcttcttta 750
184   aaacatgtca acaagctgag tgcccaggcg ggtgccgaaa tggaggcttt 800
185   tgtaatgaaa gacgcactct cgagtgtcct gatgggttcc acggacctca 850
186   ctgtgagaaa gccctttgta cccacgatg tatgaatggg ggactttgtg 900
187   tgactcctgg tttctgcata tgcccacctg gattctatgg agtgaactgt 950
188   gacaaagcaa actgtcaca cacctgcttt aatggaggga cctgtttcta 1000
189   ccctggaaaa tgtatttgcc ctccaggact agagggagag cagtgtgaaa 1050
190   tcagcaaatg cccacaaccc tgtcgaaatg gaggtaaatg cattggtaaa 1100
191   agcaaatgta agtgttccaa aggttaccag ggagacctct gttcaaagcc 1150
192   tgtctgcgag cctggctgtg gtgcacatgg aacctgccat gaaccaaca 1200
193   aatgccaatg tcaagaaggc tggcatggaa gacactgcaa taaaaggtac 1250
194   gaagccagcc tcatacatgc cctgaggcca gcaggcgccc agctcaggca 1300
195   gcacacgcct tcacttaaaa aggccgagga gcggcgggat ccacctgaat 1350
196   ccaattacat ctggtgaact ccgacatctg aaacgtttta agttacacca 1400
197   agttcatagc ctttggttaac ctttcatgtg ttgaatgttc aaataatggt 1450

```

RAW SEQUENCE LISTING

DATE: 01/03/2002

PATENT APPLICATION: US/09/903,823

TIME: 11:29:07

Input Set : N:\Crf3\RULE60\09903823.raw

Output Set: N:\CRF3\01032002\I903823.raw

```

198   cattacactt aagaatactg gcctgaattt tattagcttc attataaatc 1500
199   actgagctga tatttactct tccttttaag ttttctaagt acgtctgtag 1550
200   catgatggta tagattttct tgtttcagtg ctttgggaca gattttatat 1600
201   tatgtcaatt gatcaggtta aaattttcag tgtgtagttg gcagatattt 1650
202   tcaaaattac aatgcattta tgggtgtctgg gggcagggga acatcagaaa 1700
203   gggttaaattg ggcaaaaatg cgtaagtcac aagaatttgg atggtgcagt 1750
204   taatggtgaa gttacagcat ttcagatttt attgtcagat atttagatgt 1800
205   ttgttacatt tttaaaaatt gctcttaatt tttaaactct caatacaata 1850
206   tattttgacc ttaccattat tccagagatt cagtattaaa aaaaaaaaaa 1900
207   ttacactgtg gtagtggcat ttaacaata taatatattc taaacacaat 1950
208   gaaataggga atataatgta tgaacttttt gcattggctt gaagcaatat 2000
209   aatatattgt aaacaaaaca cagctcttac ctaataaaca ttttatactg 2050
210   tttgtatgta taaaataaag gtgctgcttt agtttttttg aaaaaaaaaa 2100
211   aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggcgggcgc gactctagag 2150
212   tcgacctgca gaagcttggc cgccatggcc caacttgttt attgcagctt 2200
213   ataattg 2206
215 <210> SEQ ID NO: 4
216 <211> LENGTH: 379
217 <212> TYPE: PRT
218 <213> ORGANISM: Homo Sapien
219 <400> SEQUENCE: 4
220   Met Ala Arg Arg Ser Ala Phe Pro Ala Ala Ala Leu Trp Leu Trp
221       1             5             10             15
222   Ser Ile Leu Leu Cys Leu Leu Ala Leu Arg Ala Glu Ala Gly Pro
223               20             25             30
224   Pro Gln Glu Glu Ser Leu Tyr Leu Trp Ile Asp Ala His Gln Ala
225               35             40             45
226   Arg Val Leu Ile Gly Phe Glu Glu Asp Ile Leu Ile Val Ser Glu
227               50             55             60
228   Gly Lys Met Ala Pro Phe Thr His Asp Phe Arg Lys Ala Gln Gln
229               65             70             75
230   Arg Met Pro Ala Ile Pro Val Asn Ile His Ser Met Asn Phe Thr
231               80             85             90
232   Trp Gln Ala Ala Gly Gln Ala Glu Tyr Phe Tyr Glu Phe Leu Ser
233               95            100            105
234   Leu Arg Ser Leu Asp Lys Gly Ile Met Ala Asp Pro Thr Val Asn
235               110            115            120
236   Val Pro Leu Leu Gly Thr Val Pro His Lys Ala Ser Val Val Gln
237               125            130            135
238   Val Gly Phe Pro Cys Leu Gly Lys Gln Asp Gly Val Ala Ala Phe
239               140            145            150
240   Glu Val Asp Val Ile Val Met Asn Ser Glu Gly Asn Thr Ile Leu
241               155            160            165
242   Gln Thr Pro Gln Asn Ala Ile Phe Phe Lys Thr Cys Gln Gln Ala
243               170            175            180
244   Glu Cys Pro Gly Gly Cys Arg Asn Gly Gly Phe Cys Asn Glu Arg
245               185            190            195
246   Arg Ile Cys Glu Cys Pro Asp Gly Phe His Gly Pro His Cys Glu
247               200            205            210

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/903,823

DATE: 01/03/2002

TIME: 11:29:08

Input Set : N:\Crf3\RULE60\09903823.raw

Output Set: N:\CRF3\01032002\I903823.raw

L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:415 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:113
L:3339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131
L:4418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:174
L:4528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175
L:5403 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206
L:5404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:206